

OSMM&N File No. 211842US2PCT

Dept.: E/M

By: GJM/MEMO/rca

Serial No. <u>09/890,261</u>

In the matter of the Application of: Thierry LIVACHE, et al.

For: METHOD FOR PRODUCING ADDRESSED LIGANDS MATRIXES ON A

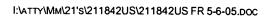
**SUPPORT** 

Due Date: N/A

The following has been received in the U.S. Patent Office on the date stamped hereor

- Dep. Acct. Order Form
- Cover Letter
- Petition Under 37 C.F.R. § 1.181
- Copy of Filing Receipt date-stamped October 29, 2001
- Copy of Information Disclosure Statement
- Copy of PTO-1449
- Copy of Search Report <u>International</u>
- Copy of Search Report French
- Copies of Cited References <u>5</u>









Docket No.: 211842US2PCT

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

OBLON

SPIVAK

**McClelland** 

**MAIER** 

**NEUSTADT** 

P.C.

ATTORNEYS AT LAW

RE: Application Serial No.: 09/890,261

Applicants: Thierry LIVACHE, et al.

Filing Date: August 7, 2001

For: METHOD FOR PRODUCING ADDRESSED

LIGANDS MATRIXES ON A SUPPORT

Group Art Unit: 1634

Examiner: Betty J. FORMAN

SIR:

Attached hereto for filing are the following papers:

Petition Under 37 C.F.R. § 1.181; Copies of: Filing Receipt date-stamped October 29, 2001, Information Disclosure Statement, Form PTO-1449,

International Search Report, French Search Report, and Cited References (5).

Our credit card payment form in the amount of \$0.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R 1.136 for any necessary Extension of Time to make the filing of the attached documents timely, please charge or credit the difference to our Deposit Account No. 15-0030. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Gregory J. Maier Registration No. 25,599

Customer Number

22850

(703) 413-3000 (phone) (703) 413-2220 (fax) I:\ATTY\MM\21's\211842US\211842US CVR 5-6-05.DOC Michael E. Monaco Registration No. 52,041



POCKET NO: 211842US2PCT

## IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN REAPPLICATION OF

THIERRY LIVACHE, ET AL. : EXAMINER: BETTY J. FORMAN

SERIAL NO: 09/890,261

FILED: AUGUST 7, 2001 : GROUP ART UNIT: 1634

FOR: METHOD FOR PRODUCING ADDRESSED LIGANDS MATRIXES ON

A SUPPORT

### PETITION UNDER 37 C.F.R. § 1.181

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicants herein petition the Commissioner to invoke his supervisory authority to require the Examiner to consider the references cited in the Information Disclosure Statement filed on October 29, 2001.

MPEP § 609.II states the Examiner will consider the documents cited in the International Search Report when PCT/DO/EO/903 indicates both the search report and the copies of the documents are present in the national stage file. Thus, Applicants' Notification of Acceptance issued by the United States Patent and Trademark Office on September 17, 2001 indicates that the references cited on the International Search Report are in the national stage file per MPEP § 1893.03(g). Therefore, Applicants request the references cited in the International Search Report and filed via the Information Disclosure Statement of October 29, 2001 be considered by Examiner. As a courtesy to the Examiner, a copy of the October 29, 2001 filing including copies of the relevant documents is provided herewith.



Application No. 09/890,201 Reply to Office Action of

Thus, per MPEP § 1893.03(g), copies of such reference need not be provided by the applicant.

Although Applicants do not believe that any fee is required for the present petition, any required fee should be charged the undersigned attorneys account no. 15-0030.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Customer Number 22850

Tel: (703) 413-3000 Fax: (703) 413 -2220 (OSMMN 06/04) Gregory J. Maier Attorney of Record Registration No. 25,599

Michael E. Monaco Registration No. 52,041

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off)			Dept.:	PP	
OSMM&N F	ile No.	211842US2PCT	By: <u>M</u>	US/sdc	
Serial No.	09/890,20	<b>51</b>			
In the matter	of the Appli	cation of: Thie	rry LIVACHI	E, et al.	
For:	METHOI ON A CA	2 FOR PRODUCING RRIER	MATRICES	OF ADDRESSED LI	GANDS
The following	g has been re	ceived in the U.S. Par	tent Office on	the date stamped here	≥on:
□ pp.	Specification	n &Claims/Drawings	Sheets		
□ Combined Attorney	Declaration	, Petition & Power of		pages	
List of Inv	entor Name:	s and Addresses			
□ Utility Pat	ent Applicat	ion OIP	□CPA		
□ Notice of I	Priority		Priority	Doc	
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□ Letter to O	fficial Draft:	sman PADEMAR			
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□ Letter					
□ Amendmer	nt				
Information	n Disclosure	Statement	■ PTO-14	149	
☐ Cited Refer	rences (7)				
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■ Statement of	of Relevancy	,			
□ IDS/Related	d/List of Rel	ated Cases	□Cited Pe	nding Applications (	)
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Docket No.

211842US2PCT/sdc

#### AND TRADEMARK OFFICE IN THE UNITED STATES

IN RE APPLICATION OF:

Thierry LIVACHE, et al.

SERIAL NO:

09/890,261

GAU:

1743

FILED:

August 7, 2001

**EXAMINER:** 

FOR:

METHOD FOR PRODUCING MATRICES OF ADDRESSED LIGANDS ON A CARRIER

# INFORMATION DISCLOSURE/RELATED CASE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

Applicant(s) wish to disclose the following information.

## REFERENCES

- The applicant(s) wish to make of record the references, some of which are cited in the attached International and French Search Report listed on the attached form PTO-1449. Copies of reference(s) AA through AN, AT and AU, have been received by the U.S. PCT Receiving Office from the International Bureau as acknowledged in the Notification of Acceptance.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

### **RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

### CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

### **DEPOSIT ACCOUNT**

Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

24,913

Marvin J. Spivak Registration No.

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 10/98)

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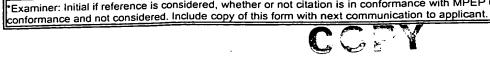






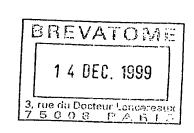
SHEET 1 OF 1

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF PATENT AND TRADEM	COMMERCE MARK OFFICE	TY DOCKET NO. 1842US2PCT		SERIAL N	10. 09/890	),261
LIST OF	· · · · · · · · · · · · · · · · · · ·			APPLICANT	LIVACHE	, et al.		
				FILING DATE August 7, 2001		GROUP	174	13
				U.S. PATENT DOCUMENTS				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS		ING DATE PROPRIATE
	AA	5,486,337	01/23/96	T. OHKAWA				
	AB	5,828,133	10/27/98	P. CAILLAT, et al.	_			
	AC							
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		DOCUMENT NUMBER	DATE	COUNTRY		YE	TRANSI	LATION NO
	AL	WO 98/58745	12/30/98	WIPO				
	АМ	WO 98/01221	01/15/98	WIPO		<u> </u>		
	AN	WO 97/49987	12/31/97	WIPO				
	AO	2 319 838	06/03/98	GREAT BRITAIN		<b></b>		
	AP	WO 94/22889	10/13/94	WIPO (with English Abstract)	<u> </u>	ļ		×
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				including Author, Title, Date, Pertin				
	AT	T. LIVACHE, et al., Analy EXAMPLE OF HEPATITI	rtical Bioche S C VIRUS	mistry, Vol. 255, pps. 188-194, "POL' GENOTYPING," 1998	YPYRROLE	DNA CHIP	ON A S	ILICON DEVICE:
	AU	Patent Abstracts of Japan	n, JP 7-2139	926, August 15, 1995				
	AV	T. LIVACHE, et al., Biose CONSTRUCTION OF DN	nsors & Bio	electronics, Vol. 13, pps. 629-634, "E TIDE ARRAYS ON SILICON CHIPS,"	LECTROCC 1998	NDUCTIN	G POLY	MERS FOR THE
	AW	S. P. A. FODOR, et al., S CHEMICAL SYNTHESIS	cience, Vol. ," February	. 251, pps.767-773, "LIGHT-DIRECTE 1991	ED, SPATIA	LY ADDR	ESSABL	E PARALLEL
	AX	HYBRIDIZATION WITH O	DLIGONUCI	iencing and Mapping, Vol. 1, pps. 375 LEOTIDE MATRIX," 1991				
	AY	ELECTROCHEMICALLY PYRROLE GROUP," 199	DIRECTED 4	search, Vol. 22, No. 15, pps. 2915-29 COPOLYMERIZATION OF PYRF	ZE N. OLI	RATION CL	OF A DN	A MATRIX VIA AN SBEARING A
	AZ	S. A. EMR, et al., Electron BIOSENSORS," 1995	analysis, Vo	ol. 7, No. 10, pps. 912-923, "USE O	YM	ZMSIN A	MPE	DMETRIC
Examiner						onsidered		
*E inor: In	itial if r	eference is considered, wh	ether or not	citation is in conformance with MPE	P 609; Draw	line through	h citatio	n if not in











FILED BY IDS

**BREVATOME** 

3 RUE DU DOCTEUR LANCEREAUX 75008 PARIS

DEMANDE DE : BREVET

NO : 9901438000 DU 08/02/99 V/REF. : B13204/MDT98.16

PARIS, LE 10 DECEMBRE

1999

NOTIFICATION D'UN RAPPORT DE RECHERCHE PRELIMINAIRE AVEC REPONSE OBLIGATOIRE

Messieurs.

J'ai l'honneur de vous adresser, en annexe, le rapport de recherche préliminaire établi conformément à l'article R.612-57 du code de la propriété intellectuelle, citant les documents qui peuvent être pris en considération pour apprécier la nouveauté et l'activité inventive de l'invention, objet de votre demande.

Selon l'article R.612-59 du code précité, vous disposez d'un délai de **3 mois** à compter de la date de réception de ce rapport de recherche préliminaire pour y répondre par écrit. Avant l'expiration de ce délai, celui-ci peut être renouvelé une fois sur votre requête.

Suivant la catégorie des documents cités, vous pouvez être tenu à une obligation de réponse (par exemple, si le rapport de recherche préliminaire mentionne des documents de catégorie **X ou Y**). Dans ce cas, un papillon **rouge** est apposé sur cette lettre et le défaut de réponse entraînera le rejet de la demande. Dans le cas contraire, ce papillon est **jaune**.

Dans tous les cas, il est de votre intérêt en élaborant votre réponse, de tenir compte de tous les documents cités.

Selon les articles R.612-58 et R.612-60 du code précité, votre réponse peut consister :

- soit en de nouvelles revendications (en 3 exemplaires). Dans ce cas, vous devez signaler les changements apportés aux revendications initiales. Vous pouvez y joindre des observations qui mettent en évidence les caractéristiques techniques de ces nouvelles revendications qui échappent à l'opposabilité des antériorités citées.
- soit seulement en des observations qui ont alors pour objet de discuter l'opposabilité des antériorités citées.

Veuillez agréer l'expression de ma considération distinguée.

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Pour le Directeur général de l'Institut national de la propriété industrielle

Le Chef du département des brevets

COPY

Martine PLANCHE

INSTITUT National de La propriete Industrielle SIEGE 26 bis, rue de Saint Petersbourg 75800 PARIS cedex 08 Téléphone : 01 53 04 53 04 Télécopie : 01 42 93 59 30

ETABLISSEMENT PUBLIC NATIONAL CREE

CREE PAR LA LOI N 51-444 OU 19 AVRIL 1951

Translation of Category of Cited Documents in the attached foreign language Search Report:

- X: particularly relevant if taken alone
- Y: particularly relevant if combined with another document of the same category
- A: relevant to at least one claim or as technological background
- O: non-written disclosure
- P: intermediate document
- T: theory or principle underlying the invention
- E: document entitled to a date prior to the filing date but which was not published until the filing date or a later date
- D: document cited in the application
- L: document cited for other reasons
- &: member of the same patent family, corresponding document



### **INSTITUT NATIONAL** de la

# PROPRIETE INDUSTRIELLE

## RAPPORT DE RECHERCHE **PRELIMINAIRE**

établi sur la base des demières revendications déposées avant le commencement de la recherche N° d'enregistrement national

FA 571692 FR 9901438

DOC	UMENTS CONSIDERES COM	ME PERTINENTS	Revendications concernées	
Catégorie	Citation du document avec indication, en des parties pertinentes	cas de besoin,	de la demande examinée	
Χ ,	WO 98 58745 A (NEW YORK 30 décembre 1998 (1998-1		1-3,5,6, 8,9, 17-19	
4	* abrégé * * page 1, ligne 10 - lign * page 6, ligne 17 - page * page 12, ligne 2 - lign * revendications; figure:	e 7, ligne 5 * ne 33 *	4,7,	
			10-16,20	
A /	US 5 486 337 A (TIHITO OF 23 janvier 1996 (1996-01- * le document en entier *	-23)	1-20	
1 /	WO 98 01221 A (COMBIMATRI 15 janvier 1998 (1998-01- * abrégé; revendications	-15)	1-20	
·	THIERRY LIVACHE ET AL.: Chip on a SIlicon Device: Hepatitis C Virus Genotyp ANALYTICAL BIOCHEMISTRY., vol. 255, 1998, pages 188 ACADEMIC PRESS INC. NEW Y ISSN: 0003-2697 * le document en entier *	Example of ping" B-194, XP002114813 ORK., US	1-20	DOMAINES TECHNIQUES RECHERCHES (Int.CL.6)
	US 5 828 133 A (PATRICE C MASSIT) 27 octobre 1998 ( * abrégé *		1-20	
	WO 97 49987 A (CELLSTAT T 31 décembre 1997 (1997-12 * abrégé *			
	- <b></b> -	-/		
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& : membre de la même famille, document correspondant

ou arrière-plan technologique général O : divulgation non-écrite P : document intercalaire

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EPO FORM 1503 03.82 (P04C13)

## REPUBLIQUE FRANÇAISE

# **INSTITUT NATIONAL** de la

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EPO FORM 1503 03.82 (P04C13)

PROPRIETE INDUSTRIELLE

## RAPPORT DE RECHERCHE **PRELIMINAIRE**

N° d'enregistrement national

établi sur la base des demières revendications déposées avant le commencement de la recherche

FA 571692 FR 9901438

Catégorie	Citation du document avec indication, en cas de besoin, des parties pertinentes	concernées de la demande examinée	
4	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11, 26 décembre 1995 (1995-12-26) -& JP 07 213926 A (HITACHI KOKI CO. LTD.), 15 août 1995 (1995-08-15) * abrégé; figures * -& DATABASE WPI Section Ch, Week 199541 Derwent Publications Ltd., London, GB; Class J04, AN 1995-316145 XP002124060 & JP 07 213926 A (HITACHI KOKI K.K.), 15 août 1995 (1995-08-15) * abrégé *	1	
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	26 novembre 1999	. Ste	vnsborg, N
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& : membre de la même famille, document correspondant

ou arrière-plan technologique général O : divulgation non-écrite P : document intercalaire

# ANNEXE AU RAPPORT DE RECHERCHE PRELIMINAIRE RELATIF A LA DEMANDE DE BREVET FRANÇAIS NO.

FA 571692 FR 9901438

La présente annexe indique les membres de la famille de brevets relatifs aux documents brevets cités dans le rapport de recherche préliminaire visé ci-dessus.

Lesdits membres sont contenus au fichier informatique de l'Officeeuropéen des brevets à la date du Les renseignements fournis sont donnés à titre indicatif et n'engagent pas la responsabilité de l'Office européen des brevets, ni de l'Administration française

26-11-1999

Document brevet cite au rapport de recherci	é ne	Date de publication	Membre(s) de la famille de brevet(s)	Date de publication
WO 9858745	Α	30-12-1998	AU 8074398 A	04-01-1999
US 5486337	Α	23-01-1996	AUCUN	
WO 9801221 -	Α	15-01-1998	AU 3588497 A CA 2259523 A EP 0910467 A ZA 9705891 A	02-02-1998 15-01-1998 28-04-1999 23-07-1998
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 WO 9749987	Α	31-12-1997	AU 3508197 A CA 2258279 A EP 0950184 A	14-01-1998 31-12-1997 20-10-1999
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### INTERNATIONAL SEARCH REPORT

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Inte. onal Application No PCT/FR 00/00289

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According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, COMPENDEX, INSPEC

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
WO 98 58745 A (NEW YORK UNIVERSITY) 30 December 1998 (1998-12-30) abstract page 1, line 10 - line 14 page 6, line 17 -page 7, line 5 page 12, line 2 - line 33 claims; figures 1-9	1-19
US 5 486 337 A (TIHITO OHKAWA) 23 January 1996 (1996-01-23) the whole document	1–19
WO 98 01221 A (COMBIMATRIX CORPORATION) 15 January 1998 (1998-01-15) abstract; claims -/	1-19
	WO 98 58745 A (NEW YORK UNIVERSITY) 30 December 1998 (1998-12-30) abstract page 1, line 10 - line 14 page 6, line 17 -page 7, line 5 page 12, line 2 - line 33 claims; figures 1-9  US 5 486 337 A (TIHITO OHKAWA) 23 January 1996 (1996-01-23) the whole document  WO 98 01221 A (COMBIMATRIX CORPORATION) 15 January 1998 (1998-01-15)

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
*Special categories of cited documents:  *A* document defining the general state of the art which is not considered to be of particular relevance  *E* earlier document but published on or after the international filing date  *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  *O* document referring to an oral disclosure, use, exhibition or other means  *P* document published prior to the international filing date but later than the priority date claimed	"Y" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention.  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone.  "Y" document of particular relevance; the claimed invention carnot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
15 June 2000	27/06/2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nł, Fax: (+31-70) 340-3016	Stevnsborg, N

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# INTERNATIONAL SEARCH REPORT

inta , onal Application No PCT/FR 00/00289

	TO SHARE WE SOURCE TO SEE THAT	101711 00700289
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with intecation, where appropriate, or the resevant passages	researce camine.
A	THIERRY LIVACHE ET AL.: "Polypyrole DNA Chip on a SIlicon Device: Example of Hepatitis C Virus Genotyping" ANALYTICAL BIOCHEMISTRY., vol. 255, 1998, pages 188-194, XP002114813 ACADEMIC PRESS INC. NEW YORK., US ISSN: 0003-2697 the whole document	1-19
Α ΄	US 5 828 133 A (PATRICE CAILLAT & CLAUDE MASSIT) 27 October 1998 (1998-10-27) abstract	1-19
Α -	WO 97 49987 A (CELLSTAT TECHNOLOGIES) 31 December 1997 (1997-12-31) abstract	
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11, 26 December 1995 (1995-12-26) -& JP 07 213926 A (HITACHI KOKI CO. LTD.), 15 August 1995 (1995-08-15) abstract; figures -& DATABASE WPI Section Ch, Week 199541 Derwent Publications Ltd., London, GB; Class J04, AN 1995-316145 XP002124060 & JP 07 213926 A (HITACHI KOKI K.K.), 15 August 1995 (1995-08-15) abstract	

## INTERNATIONAL SEARCH REPORT

information on patent family members

Inte onal Application No PCT/FR 00/00289

Patent document cited in search report		Publication date		stent family nember(s)	Publication date
WO 9858745	Α	30-12-1998	AU EP	8074398 A 0988112 A	04-01-1999 29-03-2000
US 5486337	Α	23-01-1996	NONE		
WO 9801221	A	15-01-1998	AU CA EP ZA	3588497 A 2259523 A 0910467 A 9705891 A	02-02-1998 15-01-1998 28-04-1999 23-07-1998
US 5828133	Α	27-10-1998	FR EP JP	2742452 A 0780890 A 9195094 A	20-06-1997 25-06-1997 29-07-1997
WO 9749987	A	31-12-1997	AU CA EP	3508197 A 2258279 A 0950184 A	14-01-1998 31-12-1997 20-10-1999
JP 07213926	Α	15-08-1995	NONE		<del></del>